FIGURE 1

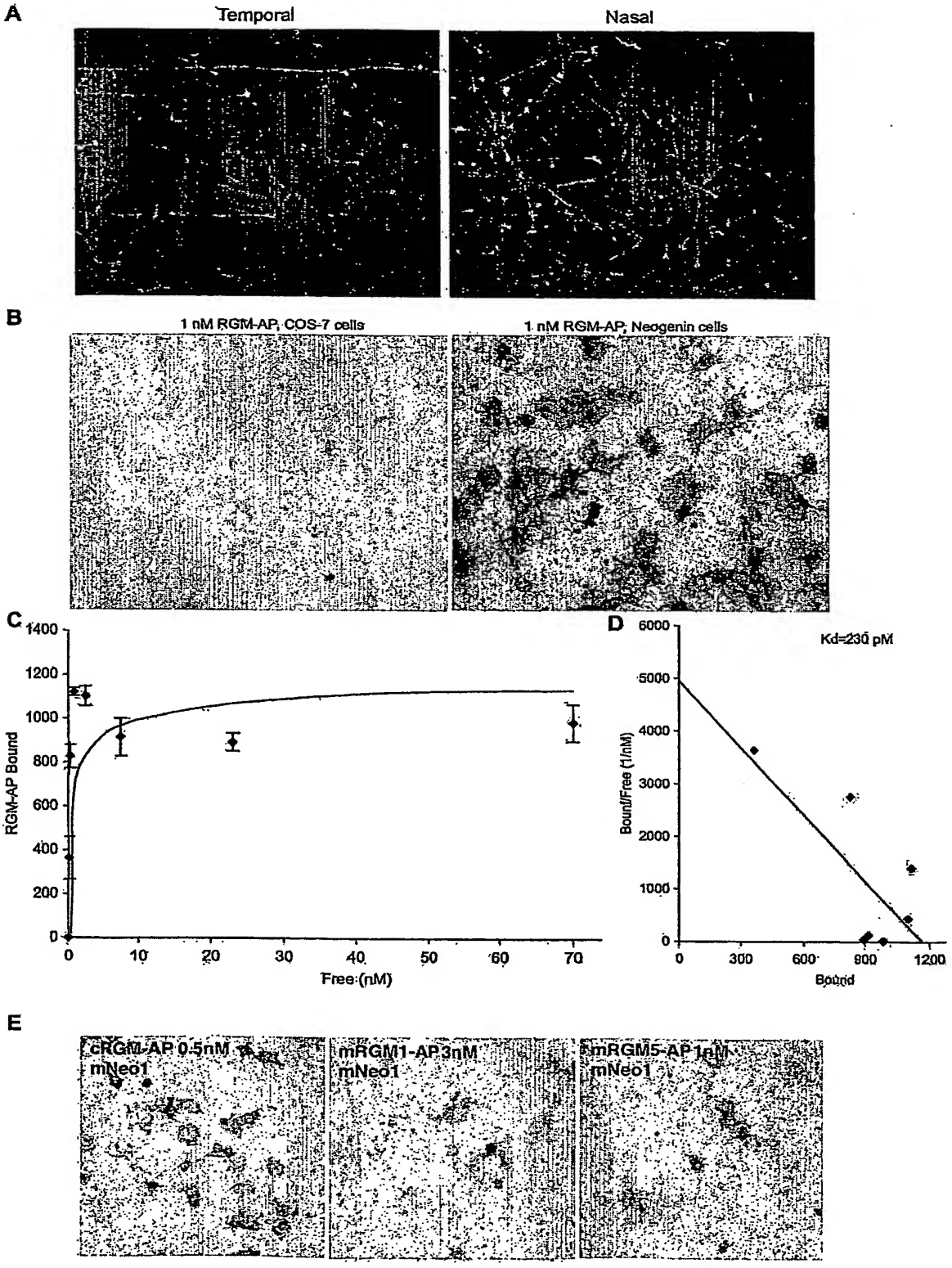

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FIGURE 2

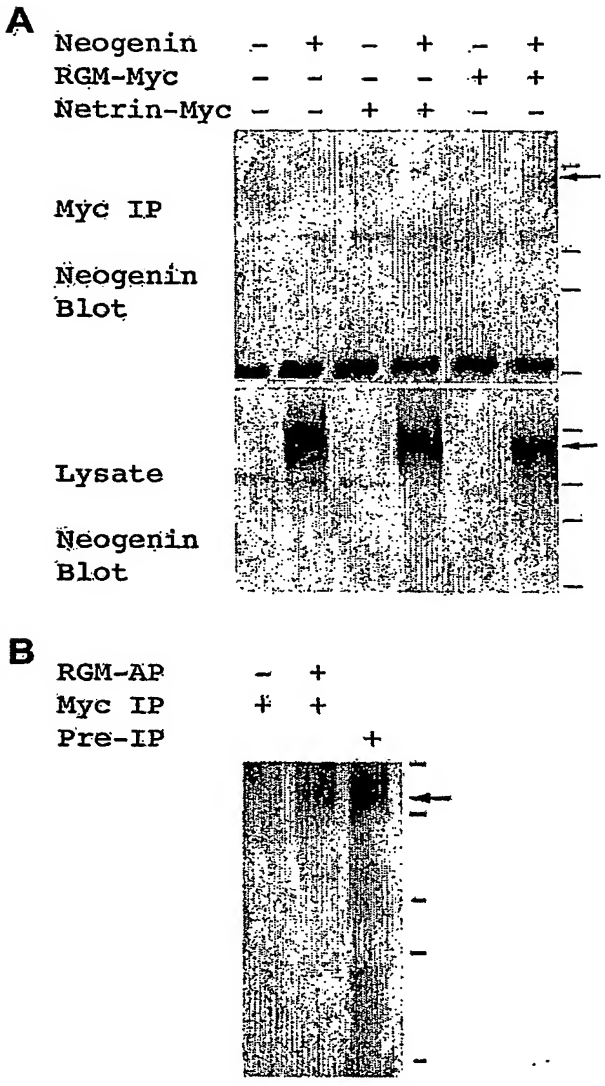

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FIGURE 3

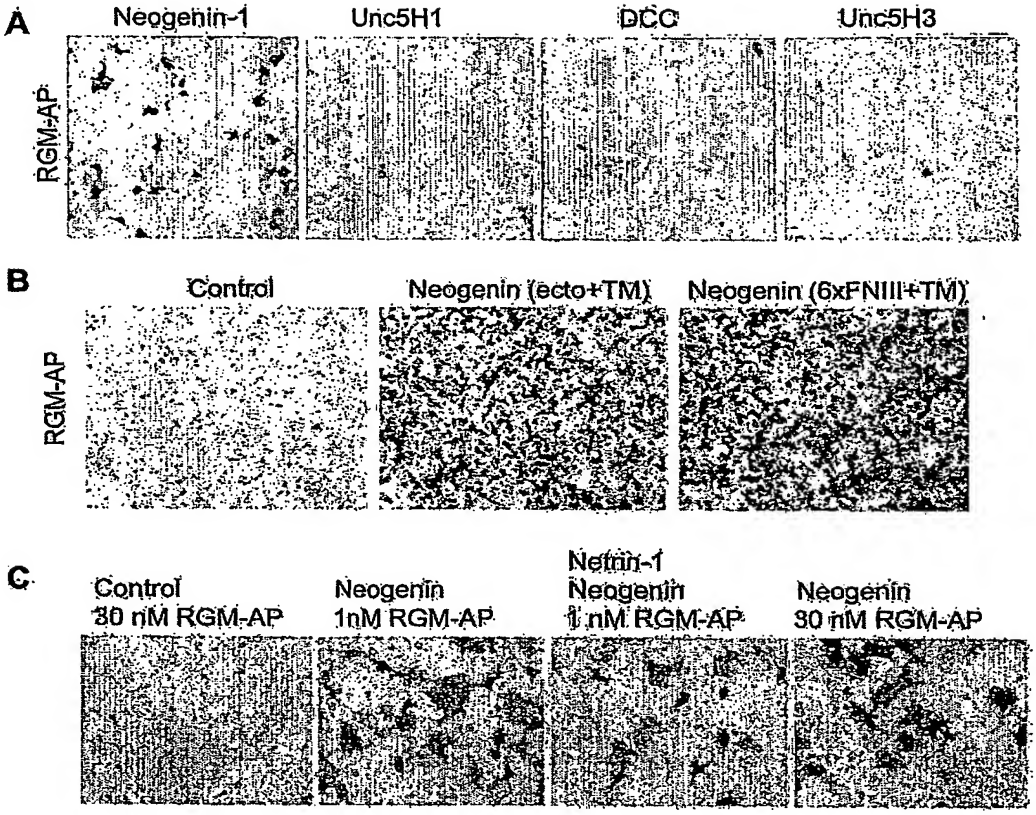

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FIGURE 4

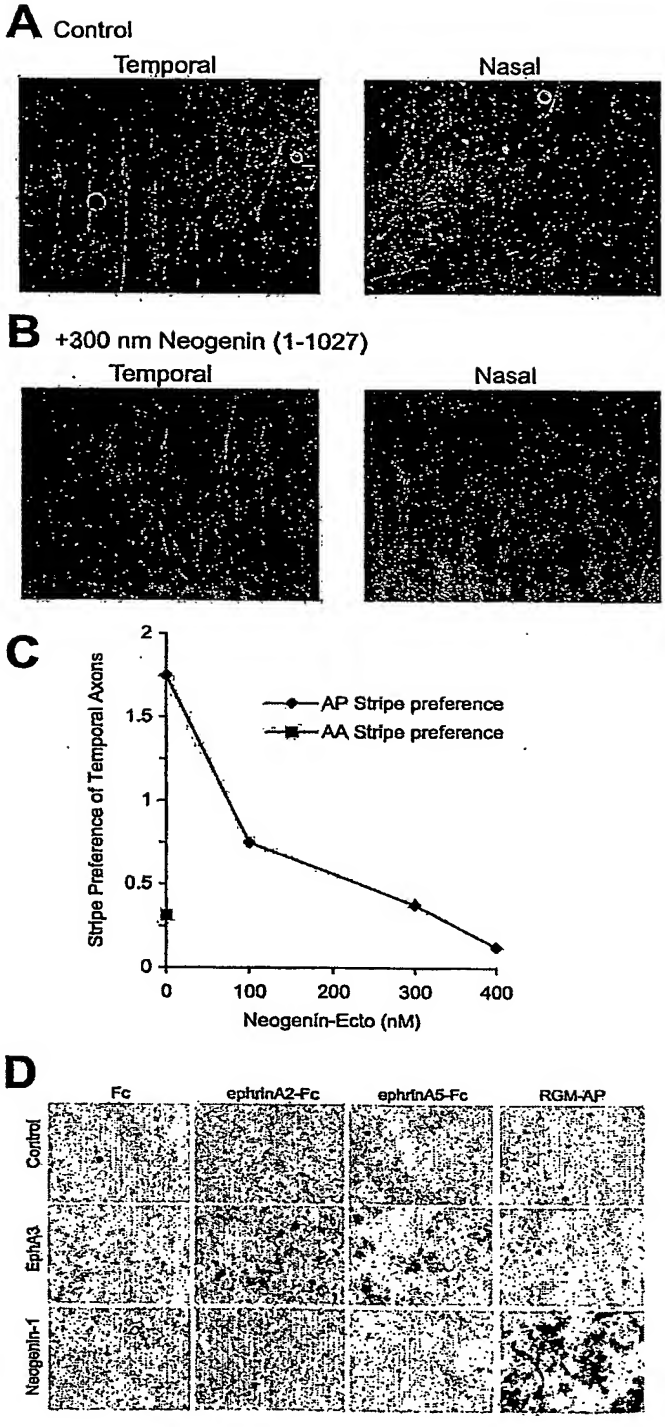

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FIGURE 5

MAAEREAGRLLCTSSSRRCCPPPPLLLLLLPLLLLLGRPASGAAA
TKSGSPPQSAGASVRTFTPFYFLVEPVDTLSVRGSSVILNCSAYSEPSPNIEWKKDGT
FLNLESDDRRQLLPDGSLFISNVVHSKHNKPDEGFYQCVATVDNLGTIVSRTAKLTVA
GLPRFTSQPEPSSVYVGNSAILNCEVNADLVPFVRWEQNRQPLLLDDRIVKLPSGTLV
ISNATEGDGGLYRCIVESGGPPKFSDEAELKVLQDREEIVDLVFLMRPSSMMKVTGQR
AVLPCVVSGLPAPVVRWMKNEEVLDTESSGRLVLLAGGGLEISDVTEDDAGTYFCIAD
NGNKTVEAQAELTVQVPPGFLKQPANIYAHESMDIVFECEVTGKPTPTVKWVKNGDVV
IPSDYFKIVKEHNLQVLGLVKSDEGFYQCIAENDVGNAQAGAQLIILEHAPATTGPLP
SAPRDVVASLVSTRFIKLTWRTPASDPHGDNLTYSVFYTKEGVDRERVENTSQPGEMQ
VTIQNLMPATVYIFKVMAQNKHGSGESSAPLRVETQPEVQLPGPAPNIRAYATSPTSI
TVTWETPLSGNGEIQNYKLYYMEKGTDKEQDIDVSSHSYTINGLKKYTEYSFRVVAYN
KHGPGVSTQDVAVRTLSDVPSAAPQNLSLEVRNSKSIVIHWQPPSSTTQNGQITGYKI
RYRKASRKSDVTETLVTGTQLSQLIEGLDRGTEYNFRVAALTVNGTGPATDWLSAETF
ESDLDETRVPEVPSSLHVRPLVTSIVVSWTPPENQNIVVRGYAIGYGIGSPHAQTIKV
DYKQRYYTIENLDPSSHYVITLKAFNNVGEGIPLYESAVTRPHTVPDPTPMMPPVGVQ
ASILSHDTIRITWADNSLPKHQKITDSRYYTVRWKTNIPANTKYKNANATTLSYLVTG
LKPNTLYEFSVMVTKGRRSSTWSMTAHGATFELVPTSPPKDVTVVSKEGKPRTIIVNW
QPPSEANGKITGYIIYYSTDVNAEIHDWVIEPVVGNRLTHQIQELTLDTPYYFKIQAR
NSKGMGPMSEAVQFRTPKALGSAGKGSRLPDLGSDYKPPMSGSNSPHGSPTSPLDSNM
LLVIIVSVGVITIVVVVVIAVFCTRRTTSHQKKKRAACKSVNGSHKYKGNCKDVKPPD
LWIHHERLELKPIDKSPDPNPVMTDTPIPRNSQDITPVDNSMDSNIHQRRNSYRGHES
EDSMSTLAGRRGMRPKMMMPFDSQPPQPVISAHPIHSLDNPHHHFHSSSLASPARSHL
YHPSSPWPIGTSMSLSDRANSTESVRNTPSTDTMPASSSQTCCTDHQDPEGATSSSYL
ASSQEEDSGQSLPTAHVRPSHPLKSFAVPAIPPPGPPLYDPALPSTPLLSQQALNHHI
HSVKTASIGTLGRSRPPMPVVVPSAPEVQETTRMLEDSESSYEPDELTKEMAHLEGLM
KDLNAITTA."

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FIGURE 6A

```
   1 GGGGGCCGCG CGGGCCGGGC CGGGCCGGGC TGGAGCCGAG CCCTGCGGCG CAGAGACCGG
  61 CTGAGGCGCG CTGAGGGAAG GGCGCGAGCG CTCCGCGGCG CTATCGCCGC CGCCGCCGCC
 121 GCCACTCGTG GGGTAGAGAT GGCGGCGGAG CGCGAAGCCG GGCGACTCCT CTGCACCTCC
 181 TCCTCCCGGC GCTGCTGTCC GCCACCGCCG CTGCTGCTGT TGCTGCCGCT GCTGCTGCTG
 241 CTCGGACGCC CGGCGTCCGG CGCCGCGGCC ACGAAGAGCG GCTCCCCGCC GCAGTCCGCA
 301 GGAGCCAGTG TTCGAACATT CACTCCGTTT TATTTTCTGG TGGAGCCAGT AGACACCCTC
 361 TCAGTTAGAG GCTCTTCTGT TATATTAAAT TGCTCGGCAT ATTCTGAGCC CTCTCCAAAC
 421 ATTGAATGGA AGAAAGATGG GACTTTTTTA AACTTAGAAT CAGATGATCG ACGCCAGCTA
 481 CTCCCAGATG GATCTTTATT CATCAGCAAC GTGGTGCATT CCAAACACAA TAAGCCTGAC
 541 GAAGGTTTCT ATCAGTGTGT AGCCACTGTG GATAATCTTG GAACCATTGT CAGCAGAACA
 601 GCCAAGCTCA CAGTAGCAGG TCTTCCAAGA TTTACCAGCC AACCAGAACC TTCTTCAGTC
 661 TATGTTGGAA ACAGTGCAAT TCTGAATTGT GAAGTTAATG CAGATTTGGT CCCATTTGTT
 721 AGGTGGGAAC AGAATCGACA GCCCCTTCTT CTAGATGACA GGATTGTCAA ACTTCCAAGT
 781 GGAACACTGG TTATCAGCAA TGCTACTGAA GGAGATGGGG GACTCTACCG CTGCATTGTT
 841 GAAAGTGGTG GGCCACCAAA GTTTAGTGAC GAAGCTGAAT TGAAAGTTCT TCAAGATCGT
 901 GAGGAAATTG TAGACTTGGT ATTTCTGATG CGACCATCTT CTATGATGAA AGTCACTGGT
 961 CAGCGTGCAG TGTTGCCATG TGTTGTCTCA GGGCTTCCTG CTCCAGTCGT TAGATGGATG
1021 AAAAACGAAG AAGTGCTTGA CACAGAAAGC TCTGGCAGGT TGGTCTTGCT AGCAGGAGGT
1081 GGCTTGGAGA TCAGTGATGT CACTGAGGAT GATGCTGGGA CTTATTTTTG CATAGCTGAT
1141 AATGGAAATA AGACAGTTGA AGCTCAGGCG GAGCTTACTG TGCAAGTGCC ACCTGGATTC
1201 TTGAAACAAC CTGCTAACAT ATATGCTCAC GAATCCATGG ACATTGTATT TGAATGTGAA
1261 GTCACTGGGA AGCCAACTCC AACTGTGAAG TGGGTCAAGA ATGGGGATGT GGTTATCCCC
1321 AGTGATTACT TTAAAATTGT AAAGGAACAT AATCTTCAAG TTTTGGGTCT GGTGAAATCA
1381 GATGAAGGGT TCTATCAATG CATTGCTGAG AATGATGTTG GAAATGCACA AGCTGGAGCC
1441 CAGCTGATAA TCCTTGAGCA TGCACCAGCC ACAACGGGAC CACTACCTTC AGCTCCTCGA
1501 GACGTCGTGG CCTCCCTGGT CTCTACTCGC TTCATTAAAT TGACATGGCG TACACCTGCA
1561 TCAGACCCTC ATGGAGACAA TCTCACCTAC TCTGTGTTCT ACACCAAGGA AGGGGTTGAT
1621 AGGGAGCGTG TTGAGAATAC CAGCCAGCCA GGAGAGATGC AGGTGACTAT TCAAAACTTG
1681 ATGCCAGCAA CTGTGTACAT CTTCAAAGTT ATGGCTCAAA ATAAGCATGG CTCTGGAGAA
1741 AGTTCAGCTC CTCTTCGAGT AGAGACACAG CCTGAGGTTC AGCTCCCTGG CCCAGCACCT
1801 AATATCCGTG CTTATGCAAC GTCACCTACT TCTATCACTG TCACCTGGGA AACACCGTTA
1861 TCTGGCAATG GGGAAATTCA AAATTACAAA TTGTACTACA TGGAAAAAGG AACTGATAAA
1921 GAACAGGATA TTGATGTTTC AAGTCACTCC TACACCATTA ATGGACTGAA GAAATACACA
1981 GAATATAGTT TCCGAGTGGT GGCCTACAAT AAACATGGTC CTGGAGTTTC TACACAAGAT
2041 GTTGCTGTTC GAACATTATC AGATGTTCCC AGTGCTGCTC CTCAGAATCT GTCCTTAGAA
2101 GTGAGAAATT CAAAGAGTAT AGTGATCCAC TGGCAGCCCC CTTCCTCAAC CACACAAAAT
2161 GGGCAGATAA CTGGCTACAA GATTCGATAT CGAAAGGCCT CCCGAAAAAG TGATGTCACT
2221 GAGACCTTGG TAACTGGGAC ACAGCTGTCT CAGCTGATTG AAGGTCTTGA TCGGGGGACA
2281 GAATATAACT TCCGAGTCGC TGCTCTCACA GTCAATGGTA CAGGTCCAGC AACTGATTGG
2341 CTGTCTGCTG AAACTTTTGA AAGCGACCTA GATGAAACTC GTGTTCCTGA AGTGCCCAGC
2401 TCTCTTCATG TCCGTCCGCT CGTCACTAGC ATTGTAGTGA GCTGGACTCC TCCAGAGAAC
2461 CAGAACATTG TGGTCCGAGG TTATGCCATC GGTTACGGCA TTGGCAGCCC TCATGCCCAG
2521 ACCATCAAAG TGGACTATAA ACAACGTTAT TACACCATTG AAAACTTGGA TCCAAGCTCT
2581 CATTACGTGA TTACCTTGAA AGCATTTAAC AATGTTGGCG AAGGCATCCC CCTTTATGAG
2641 AGTGCTGTGA CCAGACCTCA CACAGTGCCA GATCCCACTC CCATGATGCC ACCAGTGGGA
2701 GTTCAGGCTT CCATTCTGAG TCACGACACC ATAAGGATTA CCTGGGCAGA CAACTCCCTG
2761 CCCAAACACC AGAAGATTAC AGACTCCCGC TACTACACAG TCCGGTGGAA GACCAACATC
2821 CCAGCAAACA CGAAGTACAA GAATGCAAAT GCAACGACGT TAAGCTATTT GGTTACTGGT
2881 TTAAAGCCAA ATACGCTCTA TGAGTTCTCT GTGATGGTGA CCAAAGGCAG AAGGTCAAGC
2941 ACGTGGAGTA TGACAGCTCA TGGCGCTACC TTTGAATTAG TTCCTACTTC TCCACCTAAG
3001 GATGTGACAG TTGTGAGTAA GGAAGGAAAA CCTAGAACCA TCATAGTGAA CTGGCAGCCT
3061 CCCTCTGAAG CTAACGGCAA GATTACAGGT TACATCATCT ATTACAGCAC GGATGTGAAT
3121 GCAGAGATAC ATGACTGGGT TATTGAACCA GTTGTGGGAA ACAGACTGAC TCACCAGATT
3181 CAAGAGTTAA CACTTGATAC GCCATACTAC TTCAAAATCC AGGCCCGGAA CTCAAAGGGC
3241 ATGGGGCCCA TGTCTGAAGC TGTACAGTTC AGAACACCTA AAGCCTTAGG GTCAGCAGGA
3301 AAAGGAAGCC GACTACCAGA CCTGGGATCT GACTACAAAC CTCCAATGAG TGGCAGCAAC
3361 AGCCCTCACG GGAGCCCCAC CTCCCCTCTG GACAGCAACA TGCTGCTGGT CATCATTGTC
3421 TCTGTTGGCG TCATCACTAT CGTGGTGGTT GTGGTCATTG CTGTCTTTTG TACCCGGCGC
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FIGURE 6B

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3481 ACCACCTCTC ACCAGAAAAA GAAACGAGCT GCGTGCAAAT CAGTGAATGG CTCCCATAAG
3541 TACAAGGGCA ATTGCAAAGA TGTGAAGCCT CCAGACCTAT GGATCCATCA CGAGAGACTA
3601 GAGTTGAAGC CTATTGACAA GTCTCCAGAT CCTAACCCTG TCATGACTGA TACTCCAATC
3661 CCTCGAAACT CTCAAGATAT CACACCAGTG GACAATTCCA TGGATAGCAA TATCCATCAA
3721 AGGCGGAATT CATACAGAGG GCATGAGTCA GAGGACAGCA TGTCTACACT GGCTGGAAGG
3781 AGGGGAATGA GACCAAAAAT GATGATGCCC TTTGACTCTC AGCCACCTCA GCCTGTGATT
3841 AGTGCCCATC CCATCCATTC CCTCGATAAC CCTCACCATC ATTTCCACTC CAGCAGCCTC
3901 GCTTCTCCAG CCCGCAGTCA TCTCTACCAC CCAAGCAGCC CATGGCCCAT TGGCACATCC
3961 ATGTCCCTTT CAGACAGGGC CAATTCCACA GAATCTGTTC GAAATACCCC CAGCACGGAC
4021 ACCATGCCAG CGTCCTCGTC TCAGACGTGC TGCACTGACC ATCAGGACCC TGAGGGTGCT
4081 ACTAGCTCCT CTTACTTGGC CAGCTCCCAA GAGGAAGACT CAGGCCAGAG TCTTCCCACA
4141 GCCCATGTCC GCCCTTCCCA CCCTCTGAAG AGCTTCGCTG TGCCAGCAAT CCCACCCCCA
4201 GGACCTCCTC TCTATGATCC TGCACTGCCA AGCACACCAT TACTGTCCCA GCAAGCTCTG
4261 AACCATCACA TTCACTCAGT GAAAACAGCC TCCATCGGGA CGTTAGGAAG GAGCCGGCCT
4321 CCTATGCCAG TGGTTGTTCC GAGTGCCCCT GAAGTACAGG AGACCACCAG GATGCTGGAA
4381 GACTCCGAGA GTAGCTATGA ACCAGATGAG CTGACCAAAG AGATGGCCCA CCTGGAAGGA
4441 CTAATGAAGG ACCTAAATGC CATCACAACA GCCTGATGAC CTTCGCCTGG ACATGACTCC
4501 AAGCCTGAGT CTACAAGTCT CGGAACTTAA CCTTGAAAAC AAGGAATTGT ACAGAGTACG
4561 AGAGGACAGC ACTTGAGAGC AGGAGCCAGC AAACCAGCCA GTGCCTCCAT GTGGGGTTGG
4621 CTCCAGGCAC AGCCACCTGC CTTCTCCTGG TCAGCCTGGA TTACACTTGT GTGGAGGCAG
4681 CTTCCCTTTG CCTGCTGAGA GCCTGCAGGA CTGGGCACTA TGGGCCAAAA TTTTGTGTCC
4741 AGGGAAGAGG CAAGAAGTAC GACCTGCCTT TTGCTTTGTG GTCAGTGGCT TGTGTCTTTG
4801 TGCTGCAACT GCATCACTTT TATGGAGTGT AGACATTGGC ATTTATGTAC AATTTTGTGT
4861 CCTATTTTAT TTTACCTTAA AACACTATCA GAAGCCAAGG GAGTCTGTGA TGTTCTCTCA
4921 AGCAGTTGAC ACTTGACTGT GGTTCCAGTT ACTTACGGAA AGTCATCAAC AGTGAGGTTG
4981 TTTGACACCA CTGACAGGCA TTGGCTTGTT GTGGGTTTCA TTTTTATTCT TAATTCTGAG
5041 ACATTGCATC CTCTGCCAGC TGTTAATCCA TCACTTTGAG GGGAGGACAT GTTGCATTGC
5101 TGTTTGTAAG CTTTTTTATT ATTTTTTTAT TATAATTATT AAAGGCCTGA CTTTCTCCTC
5161 TCAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAA
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